

19981119.ba v02\_n307.bam.981119

>From ???@??? Fri Nov 20 02:45:07 1998  
Message-Id: <199811192105.PAA00173@sco.theporch.com>  
Date: Thu, 19 Nov 1998 15:04:02 CST  
Subject: BOATANCHORS digest 2307

BOATANCHORS Digest 2307

Topics covered in this issue include:

- 1) RE: BAs on VHF FM  
by Dick Dillman <ddillman@igc.apc.org>
- 2) Re: book recommendation  
by CARRJJ@aol.com
- 3) DAU question  
by JESelkregg@aol.com
- 4) Fabricating new cabinets?  
by Kargokult@aol.com
- 5) Re: BAs on VHF FM  
by "Arden Allen" <gumbear@pacbell.net>
- 6) Re: EF Johnson Invader problem  
by "Arden Allen" <gumbear@pacbell.net>
- 7) Re: DAU question  
by William Donzelli <william@ans.net>
- 8) '86  
by cswiger <cswiger@wilma.widomaker.com>
- 9) Re: DAU question  
by Norm Flasch <flasch@cushy.ece.nwu.edu>
- 10) free eico 710 GDO  
by "Lawrence R. Ware" <lrware@pipeline.com>
- 11) RE: '86  
by "Jim Berry" <basalop@gte.net>
- 12) [Fwd: '86]  
by laffitte@prtc.net (laffitte)
- 13) BAs on VHF FM; UHF, too!  
by James.Reid@merisel.com
- 14) Free BA Test Gear  
by Norm Flasch <flasch@cushy.ece.nwu.edu>
- 15) big M  
by "Rhett T. George" <rtg@ee.duke.edu>
- 16) BA'S FOR VHF FM  
by JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 17) tube socket adapters  
by Mary & Ray Jefferson <w7fni@micron.net>
- 18) OT: Callbook lookup, late 50's  
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 19) shortwave converter wanted

by "anthony w. deprato" <tdeprato@som-uky.campuscw.net>  
20) Report: German BA arrived!  
by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>

-----  
Date: Wed, 18 Nov 1998 19:07:19 -0800 (PST)  
Message-Id: <2.2.16.19981118190453.42c77854@pop.igc.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Dick Dillman <ddillman@igc.apc.org>  
Subject: RE: BAs on VHF FM

At 12:23 PM 11/18/98 -0500, Ed Sieb wrote:

>Ah, yes, the Twin-V! Hah!  
>I had on of those and a 'GGT also. My first 2-M FM rig was the good 'ol'  
"80D (FMTRU-80D). Since I used it as a base station, I acquired the correct  
base station power supply, and retired the dynamotor. Finally, I also got  
hold of the correct 6-foot rack, (the one with the round speaker in the  
door, and the 3 meter-panel above the door). I racked up the strips, added  
some remote control facilities and there it was - a big six-foot rack full  
of gear squirting out 30 Watts! (They ran 2E26's. The "Big-Rigs" ran a 6146:  
Hoo-hah!) Had the beast in the corner of my bed-room, with a home-brew  
control head at the operating desk. QSY was accomplished by walking over to  
rig, swapping out the surplus FT243, 6 Mc rocks for others. The rocks were  
stored on top of the PA cage, nice and warm.

A most excellent and manly setup, Ed, deserving of pictures on the Web.

>Those were the days, when the only people on 2 meters were real technicians  
or those who knew what a "service monitor" was. We all owned soldering  
irons. Many a career in land mobile radio was built from a surplus FM rig.  
I know my own career in radio started when I went to my first "netting  
party" at a buddy's place so we could net and tune our newly modified rig.  
I still have my collection of "FM" magazine.

Exactly, Ed, exactly. It's those days that Tom and I are hoping to recreate.

Regards,

Dick

Dick Dillman  
<ddillman@igc.apc.org>  
WPE2VT W6AWO  
Collector Of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

-----  
From: CARRJJ@aol.com  
Message-ID: <598c0853.36539a84@aol.com>  
Date: Wed, 18 Nov 1998 23:11:48 EST  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Subject: Re: book recommendation  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

A good book on development of radar is "Race on the Edge of Time." I bought a copy from Ham Radio Bookstore in New Hampshire several years ago. Fascinating history.

Joe Carr  
K4IPV

-----  
From: JESelkregg@aol.com  
Message-ID: <e9447cc7.3653c193@aol.com>  
Date: Thu, 19 Nov 1998 01:58:27 EST  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Subject: DAU question  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

I would like to know if there was some type of panoramic/CRT display that went with the DAU radio receiver/direction finder.

Thanks,  
Joe Selkregg

-----  
From: Kargokult@aol.com  
Message-ID: <db8e42f7.3653cc49@aol.com>  
Date: Thu, 19 Nov 1998 02:44:09 EST  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Subject: Fabricating new cabinets?  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

hello all - if you have a bunch of radios, it's likey you may have

one without the original cabinet.

i have a Sargent 7 receiver, not rack-panel length, in a fairly crude ( not that i could build one better ) cabinet, with genuine simulated woodgrain covering. i am thinking as part of repairing-restoring this receiver, a nicer cabinet might be order.

anyone have experience in going to say, a sheet metal shop and showing them what you want? or having a cabinet maker build a cabinet out of fairly thin wood? can / will a sheet metal place do something like this? one hard part might be how the reciever fastens to the cabinet. thanks for any input.

hue

"Sargent 10, 11, 12 : sensitivity and selectivity without the noise of a superhet"

-----  
Message-Id: <199811191205.EAA22968@mail-gw3.pacbell.net>  
From: "Arden Allen" <gumbear@pacbell.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Re: BAs on VHF FM  
Date: Thu, 19 Nov 1998 04:05:30 -0800  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi Ben;

> .....I've often wondered about the ovens in the GE - once the tubes  
> warm up, I've found that stability is really good. IE: I don't  
> have to wait for the ovens to stabilize the temperature in the  
> crystals to get good stability.  
>  
> \*HOWEVER\* I've noticed that all of the crystals that I have  
> for the unit are marked for 120 degrees F operation or something  
> similar to that, which makes me think that they are required  
> for proper operation...  
>  
> Anyone know for sure? .....

Not me. I would like to add the question: Do cold (as in VERY cold)  
crystals fail to oscillate?

Any frozen tow truck operators out there?

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

-----  
Message-Id: <199811191216.EAA24504@mail-gw3.pacbell.net>  
From: "Arden Allen" <gumbear@pacbell.net>

To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: EF Johnson Invader problem  
Date: Thu, 19 Nov 1998 04:11:58 -0800  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

> .....I'm open to suggestions!

Try swapping tubes in the exciter-driver chain. What does PA plate current do? Can you monitor PA grid drive easily?

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

-----  
Date: Thu, 19 Nov 1998 09:39:27 -0500 (EST)  
From: William Donzelli <william@ans.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: DAU question  
Message-Id: <Pine.GS0.3.96.981119093702.11485B-1000000@titan.purch.ans.net>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

> I would like to know if there was some type of panoramic/CRT display that went  
> with the DAU radio receiver/direction finder.

Yes, the Navy Type 55146 went with the DAU. The DAQ apparently had a different indicator.

Good luck trying to find one! I have only ever seen a bunch of BC-1159s rotting away in a junkyard - close, if you can stand a Signal Corps datatag.

William Donzelli  
william@ans.net

-----  
Date: Thu, 19 Nov 1998 09:55:29 -0500 (EST)  
From: cswiger <cswiger@wilma.widomaker.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: '86  
Message-ID: <Pine.BSF.3.96.981119095416.18825A-1000000@wilma.widomaker.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

>"The GreatBA Purge Of '86", a moment I will regret  
>for the rest of my life, unless I buy enough BA's  
>the take the place of the ones given away then. heehee

Live and learn.

From: Norm Flasch <flasch@cushy.ece.nwu.edu>  
Message-Id: <199811191510.JAA19958@cushy.ece.nwu.edu>  
Subject: Re: DAU question  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Thu, 19 Nov 1998 09:10:10 -0600 (CST)  
Cc: boatanchors@sco.theporch.com (ba)  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

I don't know if this will help. But we have a Panoramic Panalyzer model SB-8b that you can have if you can arrange for pickup here in Evanston, IL. This is a sizable BA, 22" high rack cabinet with PS in the lower rack. 500KC center freq. It works. I think we have a manual for it too.

Message-Id: <3.0.5.32.19981119112605.008a8e80@pop.pipeline.com>  
Date: Thu, 19 Nov 1998 11:26:05 +0000  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "Lawrence R. Ware" <lrware@pipeline.com>

Subject: free eico 710 GDO  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Stumbled across a poor forlorn Eico 710 GDO whilst doing some cleaning this AM....

No coils for it, and it is clearly a parts only unit.  
Need parts/pieces for your 710?  
Free for shipping to good home.

-Larry

# Larry's Home for Wayward Test Equipment & Old Radios <tm>  
# Let your equipment retire in sunny central Florida.  
# Intensive Care, Private Bench Space, Frequent Use,  
# Factory trained HP, Tek & Fluke Surgeon on staff.  
# Good Home Guaranteed or double your junk back!  
# lrware@pipeline.com - Orlando, FL -  
# 407.679.1597

-----  
From: "Jim Berry" <basalop@gte.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: '86  
Date: Thu, 19 Nov 1998 08:35:20 -0800  
Message-ID: <001301be13da\$98cca7e0\$884bfdd0@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Yup, I remember if it had a toob in it, no one but a nut wanted it. Maybe same today hee hee. I recall taking a perfect ART-13 and other BA's to the dump because I could not give them away. Really sad and dumb on my part. Live and learn. Any of you who have done similar don't feel bad.

Here is another one. This is for you VHF FM BA fans. Remember the 250BR? For you that are not familiar with these monsters, they were Motorola transmitters that put out a 1/4 Kw. Had one given to me. Had one heck of a time getting rid of it in the 80's. Saw one complete a couple years ago laying along side a road where it had been dumped. Should have packed it home. Oh well. When I finally got around to making a decision on it, the county had already cleaned up the messes along the road.

73 Jim K7SLI

Chuck and others said:

> >"The GreatBA Purge Of '86", a moment I will regret

-----  
Message-ID: <36544B9D.C5AC9825@prtc.net>  
Date: Thu, 19 Nov 1998 12:47:25 -0400  
From: laffitte@prtc.net (laffitte)  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: [Fwd: '86]  
Content-Type: multipart/mixed; boundary="-----6915140214795EEE99DECC95"

This is a multi-part message in MIME format.

-----6915140214795EEE99DECC95  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Great purge of 86? In 1994 I moved to a new home and had to give away several receivers including an RBL, SP600JX, S20R, RME45 and NC173. During the move a box containing a complete R390A with a refinished front panel but disassembled was inadvertently sent to the dump. Two weeks went by before I noticed that it was not among the boxes :>()!!!. I'm not counting a mint AR88 with cabinet that I exchanged for an SP600 in 1982 :>(). We have all gone through this in one way or another.

Best 73s  
Guido KP4FAR  
San Juan, PR USA

-----6915140214795EEE99DECC95  
Content-Type: message/rfc822  
Content-Transfer-Encoding: 7bit  
Content-Disposition: inline

Return-Path: <owner-boatanchors@theporch.com>  
Received: from sco.theporch.com ([207.234.31.38]) by wmail.prtc.net (Netscape Mail Server v1.1) with ESMTP id AAA38066 for <laffitte@prtc.net>; Thu, 19 Nov 1998 12:26:13 -0400  
Received: from sco.theporch.com (localhost [127.0.0.1]) by sco.theporch.com (8.9.2.Alpha2/8.9.2.Alpha2) with SMTP id KAA21802; Thu, 19 Nov 1998 10:36:34 -0600 (CST)  
Received: from smtp2.mailsrvcs.net (smtp2.gte.net [207.115.153.31]) by sco.theporch.com (8.9.2.Alpha2/8.9.2.Alpha2) with ESMTP id KAA21746; Thu, 19 Nov 1998 10:36:01 -0600 (CST)  
Received: from default (1Cust215.tnt4.sea1.da.uu.net [208.253.68.215])



by smtp2.mailsvcs.net with SMTP id KAA05660;  
Thu, 19 Nov 1998 10:35:51 -0600 (CST)  
Reply-To: <basalop@gte.net>  
From: "Jim Berry" <basalop@gte.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: '86  
Date: Thu, 19 Nov 1998 08:35:20 -0800  
Message-ID: <001301be13da\$98cca7e0\$884bfdd0@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3 (Normal)  
X-MSMail-Priority: Normal  
X-Mailer: Microsoft Outlook 8.5, Build 4.71.2173.0  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.2106.4  
In-Reply-To: <Pine.BSF.3.96.981119095416.18825A-100000@wilma.widomaker.com>  
Importance: Normal  
Sender: owner-boatanchors@theporch.com  
X-Listprocessor-Version: 8.2.04 -- ListProc(tm) by CREN

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73 Jim K7SLI

Chuck and others said:

> >"The GreatBA Purge Of '86", a moment I will regret

-----6915140214795EEEE99DECC95--

-----  
From: James.Reid@merisel.com  
Mime-Version: 1.0  
Date: Thu, 19 Nov 1998 09:40:02 -0800

Message-ID: <00397907.1413@merisel.com>  
Subject: BAs on VHF FM; UHF, too!  
To: Old Tube Radios <boatanchors@theporch.com>  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Greetings all,

It seems not too awful long ago I had an affinity for anything Motorola. My uncle worked for them in Milwaukee in the 60's and he always had a garage full of trade-ins, clunkers, etc. I guess that's what got me started. Almost every swapmeet I'd be dragging home Sensicon strips, Motracs, HT220's, the whole gamut of Motorola products. I remember salivating over a 2 meter 30W GGB system in a "J" cabinet at the local TRW swapmeet. The \$100 price tag was way out of line. Every time I walked by, the guy had scratched out the price and dropped it by \$25. As the end of the swapmeet drew near, he stopped me on my pass-by and said, "Look, I can't take this thing home. Give me \$2 for a box of my daughter's Girl Scout cookies and I'll GIVE you the radio." The deal was done and I hauled the radio home. I ended up horse-trading it for something else, but my friend has it crystallized up and operational.

Most of the Motracs have gone bye-bye now, since they were not always too easy to move into the amateur segments. I still have quite a few of the HT220's, PT200's, a couple station monitors(WWV on a FM receiver was interesting), a few of the CompaStation table top bases w/matching remotes, some motorcycle lunchboxes, and of course that wonderful 6' cabinet with the chrome speaker and the metering panel. It's jam-packed with 2m, 6m, and 440 radios, just waiting to be put on the air. I just don't have the space right now to make it happen. Given the status of 2m FM in So. Cal., I'm not sure it would be worth the effort. Every year or so I try to go through the collection and thin things down, but I just can't bring myself to dump anymore of the Motorola stuff. Guess it's time to find a bigger house....

Regards,  
Jim N6SVS

-----  
From: Norm Flasch <flasch@cushy.ece.nwu.edu>  
Message-Id: <199811191814.MAA20143@cushy.ece.nwu.edu>  
Subject: Free BA Test Gear  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Thu, 19 Nov 1998 12:14:08 -0600 (CST)  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

We are upgrading all of our EE labs here and find it necessary to dispose of some old equipment to make room for the new. Our new Department Chair wants it out of here and does not care how I do it. I have given this alot of thought. I love this stuff, but just don't have room for it. I could just pull the tubes and trash it all, but would rather save it if possible. I will have to do that with what is left. But, as a start, I am offering it to BA members first.

These are the terms. The equipment is free. You arrange for pickup here in Evanston, Illinois. The equipment needs to be gone by years end. Most if not all of the equipment is in good working condition. The Lab Manager that proceeded me took good care of this gear. This is a first come frist serve basis. I do not have time to box any of this.

Email reply is fine.

- \* Amphenol Borg FXR test osc. 950-2000 Mhz green knobs.
- \* HP608C sig. gen. 10 - 420 Mhz.
- \* HP616 B sig. gen. 1800 - 4000 Mhz
- \* TS 403 B/U - Mil version of the above.  
(these are \$295.00 at Fair)
- \* 2 - HP606 A sig. gen. 50kc - 65 mc.
- \* HP 202 A LF funct. gen.
- \* Panaramic Panalyzor SB-8b. 500 kc center freq. Neat, 22" rack mount with PS below. Orange screen. Hinged top opens to reveal a really nice layout inside. I offered this to a list member this morning. If he does not want it, It will be available.
- \* Conrac 19" mono monitor. Transistor version from the 60's. Still working. Open case rack mountable. This looks like something you would see in an old sci-fi movie.
- \* 5 home brew power supplies with 5 A internal variacs, 5U4 and beautiful Thordison power transformers (with rivited nameplates).
- \* 2 Norbitron 0-50vdc, 1.5A supplies, metered.

- \* One home brew as above.
- \* ERA Transistor power supply with dual 0-100v 30 ma output.  
This is a very old sand state unit with two meters each V and A.
- \* Tek time mark gen.
- \* Tek 549 storage scope working with good handles. Storage seems to work as well.
- \* 2 - Tek 545 B scopes, both working with good handles and mobiles. All scopes are in good cosmetic condition.
- \* 3 extra scope mobiles.
- \* GR 1218A unit osc. 900 - 2000 mhz.
- \* GR 1215B unit osc. 50 - 250 mhz.
- \* GR 1398A pulse gen,
- \* GR 1217A unit filter.
- \* Boonton type 250A RX meter .5 mc - 250 mc
- \* HP (looks like) sweep osc. 8.2 - 12.4 kmc.
- \* 35 large bench top variable resistors (linear Cenco style) on wooden bases. Various values.
- \* Other misc. pieces of test gear. Any of it is yours if you visit.

--

Norm Flasch      Electronic Specialist      ECE dept  
Northwestern University      Evanston, Illinois  
flasch@ece.nwu.edu      847-467-4387

-----  
From: "Rhett T. George" <rtg@ee.duke.edu>  
Date: Thu, 19 Nov 1998 13:42:40 -0500  
Message-Id: <199811191842.NAA20222@champ.ee.duke.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: big M

- Greetings -

All of this lovely talk about Motorola leads me to ask of you knowledgeable folk the following question.

Given transmitter and receiver chassis, mostly out of the mobile cabinet/case, how does one tell whether the unit is for 50 Mc, 150 Mc, or 450 Mc? Some of the transmitter strips have maybe a 7C5 driving a 6146, maybe a 7C5 driving a 2E26. or maybe a 2E26 driving a 6146. There may even be a pair of 2E26's for the final. And the receiver strips are an equal mystery. Some have four small pipe filters near the input, some have five, some have none.

There are several complete rigs considering my storage loft as home. At least one with a dynamotor, one with a squalid-state power oscillator, and one with a vibrator if my memory has not crashed.

Of course, none have crystals.

Clues are most welcome.

73 Rhett - KE4HIH

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MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit  
Date: Thu, 19 Nov 1998 13:38:52 -0500 (EST)  
Subject: BA'S FOR VHF FM  
To: Old Tube Radios <boatanchors@theporch.com>  
From: JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)  
Message-ID: <9811191338.aa11919@pcusa01.ecunet.org>

> From: Tom Norris <badger@telalink.net>  
>  
> Subject: Re: BAs on VHF FM  
>  
> \*\* Not a typo. At center freq -- I had it centered on 146.52 -- it  
> honestly did .08 microvolts thereabouts. I haven't seen a sordid state  
> radio yet that would do that "stock" and I service the things on a daily  
> basis.

All right, "Calling all our professors", what's the thermal noise limit across 52 ohms in a bandwidth of 12 kHz (appropriate for NBFM)? And remember the disadvantage of FM over AM at very low carrier to noise ratios, FM threshold effect & all that.

Even at 2 m, you are limited by antenna (galactic & locally-generated)

noise, esp. in mobile, so that kind of sensitivity is rarely useable.

If such extreme sensitivity results in more inter- & cross-mod and reduced overload capabilities, then it's for naught. Remember that these radios were designed & used in an era (the 50s) of much less EM pollution.

One of the early Motorola Sensicon A rx strips even had a field mod that \*reduced\* sensitivity slightly but increased overload handling when intermod was a problem. It added some non-delayed agc to the RF amp.

Sensicon A's went from 2 RF amps to 1 as they progressed in design from about 1950 to about mid 50s. Also, the 6AK5s used have a habit of cross modulating much more easily as they aged. (This tube stuff was made until at least about 1963.)

That followed a general trend in SW radios too, e.g. Halli SX-88 (2 RFs) to S-76 (1 RF, the first double conversion 50 kHz Halli), National NC-183D to NC-300, Hammar SP-600 to HQ-145 (or similar). You see fewer tubes doing more work & better too, e.g. less intermod.

E.g. Halli S-76/SX-96, -100, -101, -101A, -122 series: 1 RF amp, 1 high IF amp, 1 low IF amp, period (I left out the mixers). More than enough gain & sensitivity, good AGC control, plenty of selectivity and good resistance to overloads.

I've had experience with NC-183D & SP-600 (2 RFs each) & they definitely had cross- & inter-mod problems in strong sig environments. They are IMHO inferior in most ways to, say, the Halli SX-100, which is a much smaller and simpler radio, in terms of sensitivity, selectivity, AGC control & overload resistance.

Yeah, I know, I'm gonna hear some howls about this!

It was fun to convert the VHF-FM radios from 15 to 5 kHz deviation use (for 20 kHz channel spacing--Motorola & GE knew that 15 kHz spacing just doesn't work!), that needed Permakay filter change of course plus some component value changes.

The Sensicon's are extremely crunch proof. I have all the 6m & 10m stuff in the same racks. I can transmit on one band & see no interaction on the rx of the other band, i.e. no 1st limiter current change. I can even run 10 AM or SSB from across the room & not bother the 29.6 rx very much.

On xtal ovens, turn them off, not needed, why waste Watts & generate extra heat? Yes, xtals ordered for original use where for a specific oven temp but xtals you order for ham use are usually for room temp. Plus there's a freq trimmer but don't offhand remember how much 'rubbering' of freq they could do.

-John Sehring (10:43 am Thu, Nov 19, 1998 at Custer, SD USA) ucc wb2eqg

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Message-ID: <36540FBD.558D@micron.net>  
Date: Thu, 19 Nov 1998 12:31:57 +0000  
From: Mary & Ray Jefferson <w7fni@micron.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: tube socket adapters  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Greetings to all: I am in need of one of the military tube adapter sets MX-1258/u. or lacking that I need 7 and 9 pin miniature, 8 pin octal and larger 9pin miniature adapters. If I can't find someone willing to part with the military set will have to pick up the ones I need wherever I can find them. Also still looking for a round meter of the r.f. variety...0 to ten or zero to 15 amps to replace the one that got fried in my BC 610 tuner. I could send the one I HAVE IN TO BE REPAIRED BUT AFRAID IT WILL COST MORE THAN THE TUNER. Thanks for all your help and best Turkey Day to all.

Ray Jefferson  
W7FNI since 1934

Remember: Wereall in this together!

-----  
Message-Id: <3.0.1.32.19981119135357.00fd5420@vuse.vanderbilt.edu>  
Date: Thu, 19 Nov 1998 13:53:57 -0600  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>  
Subject: OT: Callbook lookup, late 50's  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Sorry, a bit off topic.

I would be grateful for a lookup from a late 50's callbook for W8WCC. I remember most vividly visiting his shack a number of times (the man had a Gallon! Wow!) but over the years the name has faded. He lived in the Cleveland OH area.

73           A. B. Bonds

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Message-Id: <3.0.5.32.19981119145208.00860210@mail.som-uky.campuscw.net>

Date: Thu, 19 Nov 1998 14:52:08 -0600  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "anthony w. deprato" <tdeprato@som-uky.campuscw.net>  
Subject: shortwave converter wanted  
Cc: forsale-swap@qth.net  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I would like to buy a shortwave converter for use on an AM radio. MFJ and a few others made these.. must be a working unit..  
thanks tony wa4jqs

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Message-Id: <3.0.1.32.19981119220644.006f2650@pop.ctv.es>  
Date: Thu, 19 Nov 1998 22:06:44 +0100  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>  
Subject: Report: German BA arrived!  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Hi gang,

Yesterday I got a very nice german receiver, a LORENZ 6P203 (does anybody know it or have any docs about it?).

But first than anything else, I want to publicly thank the person who has made it posible, Heinz Breuer. Here you have the story, as I think it is interesting to read, and shows the best face of our hobby: the receiver was given to me by P. J. Sch=FCngel (I thank also P.J. for his kind donation), a german engineer who is now working in Switzerland, because he thought I could take care of it (I can almost read this in the newspaper: "Nice boatanchor retirement in the Mediterranean coast. Moderate climate. Satisfaction guaranteed or your BA returned" :-)) ). But there was a problem: the rig was located in Kassel, Germany, and he didn't want to bother his family packing it. So I asked to the BA list for help, as I needed somebody to pick up, pack, and then send it to Spain. Heinz was so kind to pick it up (and it is not light weight... about 80 pounds and more than 120 pounds shipping weight!), take a look and describe me its condition, pack it carefully (in a very nice wood crate, along with lots of packing material) and take it to his office to be picked up by the transport company I have arranged from Spain. I think this is a good case of ham fraternity and shows it at its best. Thanks a lot, Heinz!.

The receiver has some unusual features, as its frequency range: 1.43-8.80 Mc, divided in six bands. It is enclosed in a very nice dark silver/gray painted cabinet, which is also in very good shape, and has strong rails to



enable easy sliding of the receiver. It is hold in place by means of four screws at the front panel, just needed to prevent sliding, as the receiver is really held by the rails. The case has a rectangular aperture at the back, to access the power, antenna, IF (this is a guess, as it is not labelled) and external speaker connectors.

I have been doing extensive search in the Net for this receiver, and have just found one person who has a similar receiver, J-M Noeding LA8AK. He was so kind to e-mail me some info he got studying the receiver circuit, as he had no manual. Here you have a resume of that info, with some additions of my own (between '[ ]'):

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The size is almost the same as the Siemens Rainbow receiver, but the weight is smaller [about 80 lbs]. Problem is that it covers only 1430-8800kHz which is not much of medium wave, and only smaller part of shortwave [well, at least you can hear 80 and 40 meters :-) ].

It is a CW/AM communications receiver, possibly designed/built around 1957-1960 [in my unit, there are some components dated at the end of 1956 and some at the beginning of 1957], possibly for short distance communication in coast stations.

It is possible suited for CW/AM/RTTY. Stability seems good, but it is not measured. It has variable selectivity 1-6 kHz [very nice feature; I've checked it today] with 0.3 kHz audio filter for CW. Since the selectivity is based on permeability tuned LC filters on 471 kHz [it uses nice cardioid cams to move the coil cores, similar to the ones in the R-390A], the ultimate rejection may not be satisfactorily for a modern receiver operating in a crowded band.

A 6AV6/EBC91 diode is used for SSB/CW/AM detector, and another diode for AGC. Cathode voltage for AGC delay is +5V (biased with a 220K resistor to B+). With 4V RMS BFO signal (and somewhat less IF signal) SSB sounds good. With either RX the IF is split into two different amplifiers, one for the detector and one for the AGC system, so BFO does not jam up the AGC, and AGC still works fb for SSB.

The thermionic valves [tubes] are:

V1 =3D6BA6/EF93 1st RF  
V2 =3D6BA6/EF93 2nd RF  
V3 =3D6BE6/EK90 MIXER  
V4 =3D6BA6/EF93 1st IF  
V5 =3D6BA6/EF93 2nd IF  
V6 =3D6BA6/EF93 3rd IF CW/AM  
V7 =3D6BA6/EF93 3rd IF AGC

V8 =3D6AV6/EBC90 CW-AM-det/AGC-det/AF-amplifier  
V9=3D6AU6/EF94 AF O/P  
V10=3D3-9V 0.6A series regulator (Eisenwasserstoff)  
V11=3D12AU7/ECC82 Local Oscillator  
V12=3D6AU6/EF94 BFO  
V13=3D0A2/150C2 V regulator

2 germanium diodes (0A73?) used in audio noise limiter, some selenium diodes, a selenium bridge for rectifier. I have not sorted out the complete circuit diagram.

AGC seem to work quite good, the delay is 5V (cathode voltage of EBC91), could possibly be improved for SSB, it is divided into two parts with a resistor voltage divider. MGC or AGC is selected. I tried to install another time-constant for ssb, but did not find a useful solution.

Changing one resistor value the receiver has quite good performance on SSB. As with siemens rainbow rcvr it is variable pitch sideband tuning. The receiver has built-in loudspeaker, and line output, but since only 6AU6 is used as AF output it is some limitations on this respect. I tried to look at how the audio filter was connected, but it was difficult.

According to DK2UO Hei-Jo it is also a 250W(?) matching transmitter.

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Well, I hope you get the idea!. Externally, the receiver is about the size of an R-390A, and has a nice dark green front panel, with extruded (I think this is the right word; it is like an engraved but in negative; the labels protrude from the front panel). By the way, the front panel is about a 9 and the silver lettering, with a simple soap and water cleaning, now brights like new. The dial is a big metallic disc, with extruded silver numbers and lines, arranged in six concentric circles, over a black background. It has a red dial line, lighted by a lamp from its upper side, and then each side of the dial window (delta shaped), there are six lamps. At the left side you have the frequency range selected (i.e. 1.5-2.4) and at the right side you have the band number, both lighted. The result is very nice looking.

In the front panel there is also a round "microvolt meter" (aka pseudo-smeter) at the right side, and an small speaker, apart of all the usual controls (main tunig, fine tuning, RF gain, IF bandpass width, power toggle, speaker toggle, AGC on/off, BFO on/off, USB/AM/LSB switch, BFO pitch, ...). I'll take some pictures and post them in my WEB page, along with some other info, in next days.

Well, that's all for now!. I'm really glad to have 'adopted' this nice BA. He will have some interesting neighbours to talk about the 'old times', as

the RA-117, R-390A, R-388, SP-600, AR-88D (coming soon!), so I'm sure he won't feel alone ;-)!

Best regards from Spain.

JOSE

-----  
73 EB5AGV / EC5AAU  
JOSE V. GAVILA  
Ausias March 46, 15  
46910 Benetusser - VALENCIA  
SPAIN

\*\* VISIT MY VINTAGE RADIO SITE - updated 25-October-1998 \*\*  
<http://www.geocities.com/SiliconValley/6992/>  
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

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End of BOATANCHORS Digest 2307

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